

Course Plan

Course Details

Description: This course provides the knowledge and skills to prepare a firefighter to

respond to an Animal Technical Rescue incident as a single incident accident or as a component of large scale disaster involving animals and human elements and to do so in a safe and effective manner while sharing

jurisdictional and functional responsibility with AHJ.

Designed For: Fire Service personnel

Authority: NFPA 1670 <u>Standards for Technical Rescuer Professional Qualifications</u> (2014)

Prerequisites: ICS 100, ICS 200 and Animal Technical Rescue Awareness Level

Standard: Complete all activities and mandatory skills, attend all scenarios

Hours: Lecture: 6:00, Activities: 1:00, Skills: 9:00

Hours (Total): 16

Maximum Class Size: 28

Instructor Level: Registered FSTEP Instructor with ATR experience

Instructor/Student Ratio: 1:28 (Lecture/Activities); 1:7 (skills)

Restrictions: none **SFT Designation:** FSTEP

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Required Resources

Instructor Resources

To teach this course, instructors need:

- Animal Technical Rescue Technician Instructor Manual, 1st Ed (2017), Large Animal Rescue Foundation, Inc. (http://osfm.fire.ca.gov/training/SFTCurriculum)
- Tabletop worksheets
- Animal Handling and Basics Course

Student Resources

To participate in this course, students need:

- Animal Technical Rescue Technician Student Manual, 1st Ed (2017), Large Animal Rescue Foundation, Inc. (http://osfm.fire.ca.gov/training/SFTCurriculum)
- PPE, long sleeve shirt, lug soled boots, helmet, gloves

Facilities, Equipment, and Personnel

The following facilities, equipment, and personnel are required to deliver this course:

Facilities

- Classroom that accommodates up to 25 students
- Projection equipment and screen
- Training area that accommodates multiple skills stations
 - Sanitation facilities
 - Rehab area (shade, haydration, first aid)
- Training area with varied terrain for scenarios

Equipment

- Incident action plan (IAP): One for each skills day
- Tabletop worksheets
- Hand tools: pike pole, Superclip or equilavalant remote caribineer application device, haligan, shovel, webbing, water rescue rope, hardware and webbing to build 3:1, 4:1 systems and anchors, brake bar, Duct tape, J-hook, Connell flex guide, rescue straps, wildland hose, cargo netting 6'X8'x6" squares, ladder (folding or other).
- **Power tools :** Capstan winch (optional)
- **Stabilization equipment:** High pressure air bag set, Para-tech struts, Air-shore struts or equilivalant, cribbing
- Vehicles: 1 or two upright trailers for demonstration, 1 trailer for rollover scenario
- Victim immobilization and transport equipment: 1 Glide backboard for horses or cows with 2 HDP slipsheets, webbing, prusiks, carabineers, 1 mil-spec cargo net 6'X6', human victim packaging system to include backboard, strapping, head bed

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- Victims: Manufactured or improvised rescue manikins (determined by number of scenario stations, 1 human manikin, 1 – 4 life sized articulated horse manikins, dog manikin
- Lifting equipment: Rescue air bag set, Choice of one or all sling systems: Large Animal Lifter, Belly Band Net Lift system, 2-Strap system, Anderson Sling, Upsy-daisy cow lifter, Single jacket 11/2" hose less couplers
- Other equipment as needed: salvage covers, tarps
- For all equipment, ensure that you have the operating supplies (fuel) and cleaning supplies

Personnel

- Lecture
 - One registered primary instructor
- Skills
 - One registered primary instructor (for a group of 25 students)
 - One assistant instructor (for each additional group of 6-7 students)
 - One capable horse handler (if a live animal is used in the class)
 - One safety officer

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Unit 1: Orientation and Admininstration

Topic 1-1: Orientation and Administration

Terminal Learning Objective

At the end of this topic, a student will be able to identify facility and classroom requirements and identify course objectives, events, requirements, assignments, activities, resources, evaluation methods, and participation requirements in the course syllabus.

Enabling Learning Objectives

- 1. Identify facility requirements
 - Restroom locations
 - Food locations
 - Smoking locations
 - Emergency procedures
- 2. Identify classroom requirements
 - Start and end times
 - Breaks
 - Electronic device policies
 - Special needs and accommodations
 - Other requirements as applicable
- 3. Review course syllabus
 - Course objectives
 - Calendar of events
- 4. Course requirements
 - Student evaluation process
 - Assignments
 - Activities
 - Required student resources
- 5. Class participation requirements

Discussion Questions

1. To be determined by the instructor

Activities

To be determined by the instructor.

Topic 1-2: Animal Technical Rescue (ATR) Technician Certification Process

Terminal Learning Objective

At the end of this topic, a student will be able to identify different levels in the ATR Certification Track, the courses and requirements for Technician Level certification, and be able to describe the testing process.

Enabling Learning Objectives

1. Identify the different levels of certification in the certification track

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- a. Level 1 ATR Awareness
- b. Level 2 ATR Technician
- 2. Identify the courses required for each level
- 3. ATR Awareness
 - a. ICS 100, 200
- 4. ATR Technician
 - a. ATR Awareness
 - b. Working knowledge of ropes and rope systems
 - c. FEMA course IS-10.A Animals in Disasters
 - d. FEMA course IS 11.A Animal in Disasters Community Planning
 - e. FEMA course IS 111.A Livestock in Disasters
- 5. Identify any other requirements for ATR Awareness_ None
- 6. Complete all prerequisites and course work
- 7. Complete all job performance requirements
- 8. Must have identified evaluator verify individual task completion via signature

Discussion Questions

1. What FEMA classes provide background information for ATR?

Activities

To be determined by the instructor.

Unit 2: ATR – Introduction and History

Topic 2-1: Introduction and History

Terminal Learning Objective

At the end of this module, the student will be able to describe ATR in the context of a long tradition of lifting, lowering and hauling horses for industry, commerce and war and will be able to recognize time tested concepts that lay the foundation for current application.

Enabling Learning Objectives

- 1. Identify the everyday need for establishing an ATR response
- 2. Discuss transferable technical rescue skills
- 3. Understand animal technical skills found in other cultures and other times
- Transport of mules into mines for the mining industry o Transport of horsepower over a Tibetan river o Transport of pack animals over a ravine
- 5. Understand the focus on equines, and the problems with transferring these skills to cats
- 6. Explain the definition of ATR
- 7. Explain the relevance of other technical rescue skills to ATR how they can complement efforts
- 8. Describe historic use of horses in the fire service
- 9. Identify an example of ATR training with a life size articulated manikin

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Discussion Questions

1. What modern concept do we get from the old time way of lowering a mule into a mine?

Activities

To be determined by the instructor.

Unit 3: ATR – Animal Anatomy / Physiology

Topic 3-1: Animal Anatomy / Physiology

Terminal Learning Objective

At the end of this module, the student will be able to identify vulnerable areas and systems of the equine/animal skeletal structure and know how to utilize anatomical features for equipment placement, equipment purchase points for extrication and lifting, and how to assist mobility of the ambulatory animal

Enabling Learning Objectives

- 1. Identify common animal terms
- 2. Identify significant parts of an animal
 - Skin and hair covering
 - Nerve blanket and bundles
 - Skeletal structure
- 3. Describe physiological systems
 - Circulatory system and vascular areas o Respiratory system o Nervous system
- 4. Explain front and hind leg systems and how they impact rescue
- 5. Identify the different purchase points on the animal
- 6. Identify the different equipment access points on the animal
- 7. Describe the "Golden Hour"
- 8. Explain vital signs and monitoring condition throughout rescue

Discussion Questions

1. What is wrong with pulling on a front leg?

Activities

To be determined by the instructor.

Unit 4: ATR - Safety and Approach

Topic 4-1: Safety and Approach

Terminal Learning Objective

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At the end of this module, the student will be able to recognize some of the attitudes that a horse, the most common large animal rescued, may express, defensive mechanisms of the horse and determine the "line of fire" and how dynamic it is.

Eanbling Learning Objective

- 1. Identify the defense systems of horses
- 2. Read the "line of fire" to determine positions to work from
 - Standing horse
 - Recumbent horse
- 3. Learn the speed of a kick
- 4. Explain general considerations for approach
- 5. Mechanism of incident
- 6. Hazards
- 7. Identify attitudes of the horse
- 8. Describe assessment on approach
 - Primary assessment
 - Secondary assesment
- 9. Describe gaining and staying in contact with the horse

Discussion Questions

1. What are some impacts of friction on an ATR?

Activities

To be determined by the instructor.

Unit 5: Patient Management

Topic 5-1: Patient Mangement

Terminal Learning Objective

At the end of this module, the student will be able to know the levels of involvement with the horse/animal victim based on available resources, and capability of the animal.

Enabling Learning Objective

- 1. Identify resources for managing the horse patient
- 2. Describe directing and supporting the horse
- 3. Describe passive rescue or setting things up so that the horse can save itself
- 4. Describe assisting the horse
- 5. Describe "Doing it For the Horse"
- 6. Explain the "Doing it to the Horse"
- 7. Identify necessary "Manhandling"
- 8. Explain advantages, disadvantages with chemical restraint
- 9. Discuss the considerations for sedation vs anesthesia

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Discussion Questions

- 1. Why is it bad to pull on the horse's head?
- 2. Give one example of helping the horse to help itself

Activities

To be determined by the instructor.

Unit 6: Animal First Aid

Topic 6-1: Animal First Aid

Terminal Learning Objective

At the end of this topic, a student given common terminology, will be able to identify basic first aid needs and the application of basic first aid to large and small animals.

Enabling Learning Objective

- 1. Identify the need for a veterinarian response
- 2. Learn rescuer safety
- 3. Explain a "brain stem response"
- 4. Identify resources to help with identification of abnormal animal behaviors
- 5. Understand normal health parameters
- 6. Physical, auditory, visible signs, vital signs, position of patient
- 7. Explain visual assessment
- 8. Explain hands-on assessment
- 9. Describe animal restraint and handling
- 10. Productive vs Counter-productive means
- 11. Wounds
- 12. Bleeding
- 13. Penetrating

Discussion Questions

- 1. Upon approaching an animal what is the first observation?
- 2. What vital signs are quickly assessable?
- 3. What are the limitations for conducting first aid on an animal?

Activities

To be determined by the instructor.

Unit 7: Scene Management

Topic 7-1: Scene Management

Terminal Learning Objective

At the end of this topic, a student will be able to identify organizational systems, resources, and operational adaptations for ATR within the context of disaster or single incident response. Students will learn how various agencies can work in concert with each other to

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resolve an ATR incident. Concepts are suggested for effective rescue, and students will learn about responsible hand-off following rescue.

Enabling Learning Objective

- 1. Discuss the aspects involved with an ATR
- 2. Describe the application of the ICS system to ATR, expanding or contracting according to incident
- 3. Explain jurisdictional agencies, and how they may contribute to operations
- 4. Identify and know how to request the appropriate resources
 - a. Animal handler
 - b. Extrication/haul team
 - c. Containment Leader
 - d. Safety Officer
 - e. Public Information Officer
 - f. Veterinarian
- 5. Identify rescue concepts
- 6. Identify scene setup
- 7. Understand PPE and adjuncts to PPE
- 8. Explain "Hand-Off"
 - a. Need for preplanned agreements with AHJ and veterinarians
 - i. Associated costs for special equipment
 - ii. Associate costs for veterinary care
 - iii. Possible oversight by Animal Control
- 9. Discuss rescue concepts

Discussion Questions

- 1. Who is responsible for safety on the scene?
- 2. What additional changes are made to the ICS structure in an ATR?

Activities

To be determined by the instructor.

Topic 7-2: Rescue Concepts

Terminal Learning Objective

At the end of this topic, the student will be able to explain effective rescue concepts that support safety for the rescuer and the animal, and strategy supported by tested tactics. The student will understand patient management for both recumbent and ambulatory animals.

The student will be able to distinguish between skills necessary to move an animal patient and how to modify those skills for rapid extrication of a human patient impinged by a horse.

Enabling Learning Objectives

- 1. Explain what it means to facilitate self-extrication for the animal who is stranded
 - a. Identify the critieria for self-extrication and explain how the following can contribute to success:
 - i. Soundness and condition of the animal patient

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- ii. Ability to stabilize footing
- iii. Ability to eliminate and/or control hazards and obstacles
- iv. Patient History and capability
- v. Available containment after extrication
- vi. Situational awareness and control
- b. Identify how rescuers can support a self-extrication
 - i. Describe placement of staffing
 - ii. Describe operational zones
 - iii. Describe safe sheltering
 - iv. Describe escape routes for the animal and the patient
 - v. Describe possible equipment and staffing resources
- 2. Explain what it means to assist movement/extrication for the animal who is stranded or entangled
 - a. Distinguish between
 - i. Removal of the object from the animal
 - 1. Identify best progression for removal
 - Identify appropriate equipment and tools for spreading or cutting or dismantling
 - 3. Identify possible barriers for the animal and the rescuers
 - ii. Removal of the animal from the stationary object
 - 1. Identify appropriate equipment for extrication
- 3. Explain what it means to perform extrication of an anesthetized animal
- 4. Explain optimal purchase points and strapping technique for rapid removal of an animal from a human
 - a. Describe a side pull that straps around the gaskin and lateral side
 - i. Vectoring to full advantage
 - b. Describe a dorsal pull that straps around the back at the girth, assisted by purchase points on the head and forelegs
 - c. Describe the use of lift bags to assist

Discussion Questions

- 1. Who is responsible for safety on the scene?
- 2. What additional changes are made to the ICS structure in an ATR?

Activities

To be determined by the instructor.

Instructor notes:

use an articulated wooden horse artist's manikin to demonstrate

Topic 7-3: Scene Management Exercise (Optional)

Terminal Learning Objective

At the end of this topic, a student will be able to organize and operate an ATR scene on paper; Students will determine safety issues, request resources, determine ICS structure,

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determine basic strategies and determine need for safety equipment. Groups will then present their "rescue" to the rest of the class.

Enabling Learning Objective

- 1. Given a visual example of an ATR list::
 - a. On-scene hazards and safety concerns
 - b. Attitude of the animal
 - c. Level of rescuer involvement to save the animal
 - d. Agencies having jurisdiction
 - e. Additional resources
 - f. Chance for secondary disaster
 - g. Common Goals including strategies

Discussion Questions

- 1. What similarities are there between a HAZMat and a ATR?
- 2. Name some guidelines for setting up operations
- 3. Name agencies that have justidiction in a local county park

Activities

To be determined by the instructor.

Unit 8: Physics

Topic 8-1: Physics

Terminal Learning Objective

At the end of this topic, a student will be to explain how physics theory can dictate many components of ATR and how it can help establish technique and protocol.

Enabling Learning Objective

- 1. Identify the physical properties that affect ATR
- 2. Understand the principals and how they apply to safety
- 3. Describe the force of gravity and weight
- 4. Give an example of force
- 5. Explain Scalar vs. Vector and how vectors can be added and subtracted
- 6. Understand how vectors can be broken into components
- 7. Describe how these forces apply to hauling a large animal uphill
- 8. Explain how to reduce friction
- 9. Describe how angles matter
- 10. Describe how to distribute force
- 11. Identify optimal hitches
- 12. Understand working with multiple ropes
- 13. Describe locating anchors
- 14. Explain shock loading
- 15. Identify center of gravity on a horse

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Discussion Questions:

- 1. What are some impacts of friction on an ATR?
- 2. Why are double lead lines bad to use with horses?
- 3. What are some impacts of friction on an ATR?
- 4. How does shock loading affect an ATR?

Activities:

To be determined by the instructor.

Unit 9: ATR – Raising and Lowering

Topic 9-1: Raising and Lowering

Terminal Learning Objective

At the end of this topic, given types and positions of anchors, a student will be able to identify the different rope systems, slings, and mechanical equipment and how to adapt them to more safely move or lift an animal.

Enabling Learning Objectives

- 1. Identify the capacity of a 3:1 system and how to increase its mechanical advantage
- 2. Identify the capacity of a 4:1 system and how to increase its mechanical advantage
- 3. Describe complications with utilizing heavy equipement to move a large animal
- 4. Identify the different adaptations to operations in an animal response
 - a. Anchor considerations
 - b. System dynamics
 - c. Shock load issues
 - d. Cut aways
 - e. Rest or stopping point consdiderations
 - f. Verticle lifting considerations
- 5. Understand the benefits and hazards associated with a helicopter lift of a large animal
- 6. Understand how to utilize a ladder for access and anchoring on an ATR
- 7. Identify safety considerations

Discussion Questions

- 1. What eneeds to be considered when setting up a rope hauling system?
- 2. What needs to be considered when setting up a vertical lifting system in a structure?
 Ona tree?
- 3. What is the importance of shock load to the system anchor?
- 4. Is a vehicle a good anchor?
- 5. Why do we want to have a "cut away" in the rope system?

Activities

To be determined by the instructor

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Unit 10: ATR – Vertical Lifting / Helicopter

Topic 10-1: Vertical Lifting

Terminal Learning Objective

At the end of this topic, student will learn different types of commercially built slings for horses and cows, and their advantages and disadvantages. The student will learn about Helicopter Lifting and a sling that is rated for this operation.

Enabling Learning Objective

- 1. Describe an improvised lifting sling for horses that is made out of fire hose
- 2. Describe attachment at the center of gravity
- 3. Explain the importance of a rescue knife
- 4. Describe a 2-strap sling
- 5. Describe a Large Animal Lifter sling
- 6. Describe a belly net sling
- 7. Describe cow slings
 - a. Daisy cow lifter
 - b. Wiggens o Upsy Daisy Cow Lifter
- 8. Describe the Anderson Sling
- 9. Explain lifting by the hooves
- 10. Explain Helicopter Lifting
 - a. Criteria o Scene setup o Scene management
- 11. Describe lifting slings for dogs
- 12. Describe cages for small animals
- 13. Identify Standard hand signals
- 14. Identify types of helicopters and their ratings

Discussion Questions

- 1. What needs to be considered when deciding on a lifting sling?
- 2. What needs to be considered when setting up a vertical lifting system in a structure?
- 3. What needs to be considered when setting up a vertical lifting systemoOn a tree?

Activities

To be determined by the instructor

Topic 10-2: Helicopter Operations

Terminal Learning Objective

At the end of this topic, a student will be able to identify the equipment needed, adaptions needed to manage scene setup, operations, and safety for incidents involving the helicopter lifting of an animal.

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Enabling Learning Objectives

- 1. Identify situations where helicopter operationsmay be needed
 - a. Remote locations
 - b. Extreme conditions
- 2. Identify the equipment needed to perform a helicopter operation
 - a. Appropriate lifting harness
 - b. Appropriate helicopter
- 3. Identify the secene management needed to perform a helicopter lift
 - a. Lifting operations
 - b. Landing operations
- 4. Identify safety considerations

Discussion Questions

- 1. What is the biggest limitation in conducting a helicopter lift?
- 2. What additional operational needs are involved with helicopter lifts?

Activities

To be determined by the instructor

Unit 11: ATR - Water, Mud and Ice Operations

Topic 11-1: Water, Mud and Ice Operations

Terminal Learning Objective

At the end of this topic, a student will be able to identify the adaptions needed to manage scene setup, operations, and safety for incidents involving an animal stranded in mud or water.

Enabling Learning Objectives

- 1. Identify animal behavior and handicaps in mud, water, and ice situations
 - a. Mud conditions
 - b. Standing water conditions
 - c. Moving water conditions
 - d. Pool conditions
 - e. Ice/cold conditions
- 2. Identify the different resources needed in an animal response involving mud and water situations
 - a. Swift Water Rescue response
 - b. Fire Department
 - c. Animal Control
 - d. Veterinarian
 - e. Animal Owner
- 3. Understand the application of a rescue strap in mud, water or ice situations
- 4. Identify the basic rescue strategies
 - a. Mud

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- b. Water/Swimming pool
- c. Ice/Moving water
- d. Small animal
- 5. Understand scene set up considerations
- 6. Understand decontamination
 - a. Rescuer
 - b. Animal
- 7. Identify safety considerations

Discussion Questions

- 1. What is the biggest limitation in a water/ice rescue?
- 2. What will most animals do when being directed out of water?
- 3. What scene considerations do we need to take?

Activities

To be determined by the instructor

Unit 12: ATR - Animal Decontamination

Topic 12-1: Animal decontamination

Terminal Learning Objective

At the end of this topic, a student will be able to identify situations and techniques for the decontamination of aniamals.

Enabling Learning Objectives

- 1. Identify situation where decontamination may be needed
 - a. Mud conditions
 - b. Chemical exposures
 - c. Disease situations
- 2. Identify the different tehnnniquecs for decontamination of animals
 - a. Small animal decontamination
 - b. Large animal decontamination
 - c. Equipment
 - d. Trailers
- Understand situations where decontamination is not advised
 - a. Disease/infection
- 4. Identify safety considerations

Discussion Questions

- 1. What is the need for decontanination?
- 2. What options are available in a disease and why?
- 3. What scene considerations do we need to take?

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Activities

To be determined by the instructor

Unit 13: ATR – Small Animals

Topic 13-1: Small Animals

Terminal Learning Objective

At the end of this topic, a student will be able to understand what ATR skills are applicable to small animals and know alternative means for those that are not.

Enabling Learning Objective

- 1. Describe historic inspiration for canine rescue
- 2. Identity the differences between canine and feline skeletons
- 3. Explain how differences in canine breed can determine types of rescue slings and harnesses
- 4. Describe different canine attitudes and how they might impact rescue efforts
- 5. Explain patient management
- 6. Identify types of extrications
- 7. Describe lifting of dogs and other small animals

Discussion Questions

1. Why do slings need to be adapted for small animals

Activities

To be determined by the instructor

Unit 14: ATR – Animal Euthanasia

Topic 14-1:- Euthanasia

Terminal Learning Objective

At the end of this topic, a student will be able to identify the potential need for euthanasia of the animal patient, acceptable methods of euthanasia, postential danger to bystanders of euthanasia, and understand sheltering in place and comfort care until field euthanasia can be accomplished by a qualified individual.

Enabling Learning Objectives

- 1. Understand the definition of euthanasia
- 2. Identify the potential need for euthanasia in an animal response aAnimal injuries, criteria for determination of euthanasia
 - b. Terminal illness
 - c. Hazard to itself or others
- 3. Understand the traumatic results of euthanasia
 - a. On responders
 - b. On owners

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- c. On bystanders
- 4. Describe comfort care to the animal patient
- 5. Explain insurance considerations and constraints
- Understand accepted methods, qualification to administer, and method of delivery
- 7. Explain method of determining death
- 8. Understand recovery of the animal patient

Discussion Questions

- 1. What are the accepted methods of euthanasia?
- 2. What are the dangers of using a gun?
- 3. What is the role of the Public Information Officer in the case of euthanasia?
- 4. If the owner is not available, who has responsibility for determine euthanasia?

Activities

To be determined by the instructor.

Unit 15: ATR - Body Recovery

Topic 15-1:Body Recovery

Terminal Learning Objective

At the end of this topic, a student will be able to identify reasons to help out with recovery of an animal body and how they and the owners can benefit.

Enabling Learning Objective

- 1. Explain some of the benefits of recovery
- 2. Ability to help the animal in some way
- 3. Opportunity to utilize ATR skill set in a safe setting
- 4. Practical service to the owner and jurisdictions where the death occurred

Discussion Questions

1. What is one example of why it might be important to move an from a state park.

Activities

To be determined by the instructor

Unit 16: ATR - Basic ATR Skills Demonstrations

Topic 16-1:- Basic Animal Manipulation

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, J-hook, lunge whip, Connel flex guideand rope, and a full size manakin, students will apply equipment and preform basic animal manipulation operations.

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Enabling Learning Objectives

- 1. Understand the dynamics of equipment application
- 2. Understand proper positioning
- 3. Understand appropriate situations where different techniquics are used
 - a. Large animals
 - b. Small animals
- 4. Understand the best access points for equipment application
- 5. Animal rolling
 - a. Equipment placement
 - b. Proper pulling
- 6. Horizontal drag
 - a. Equipment placement
 - b. Proper pulling
- 7. Front drag
 - a. Equipment placement
 - b. Proper pulling
- 8. Rear drag
 - a. Equipment placement
 - b. Proper pulling
- 9. Sternal roll
 - a. Equipment placement
 - b. Proper pulling
- 10. Tail tie
 - a. When appropriate
 - b. Steady pull
 - c. Angle of pull

Discussion Questions

- 1. What is the accepted substitute equipment is available on a fire engine?
- 2. What are the additional uses of lunge whips?
- 3. When is "tethering" of the rescuer appropriate?

Activities

To be determined by the instructor.

Topic 16-2:- Basic Trailer Operations

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes a full size manakin, and a standing horse trailer, students will preform a scene assessment, discuss horse trailer construction, observe the various methods and options for applying a rescue strap to an animal inside a trailer and it's extracation.

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Enabling Learning Objectives

- 1. Understand the dynamics of a trailer incident
- 2. Understand proper scene assesment
- 3. Understand/demonstrate the proper method for exanimating the interior of a trailer
- 4. Understand the dest access points for equipment application
- 5. Understand releasing the dividers from the exterior of the trailer
- 6. Understand how to handle a tethered animal
 - a. Understand the different tethering methods
 - b. Understand when to cut down a tethered animal down and the consequences
 - c. Understand how to slowly release a tethered animal
- 7. Understand how to attach a long lead line
- 8. Understand a demonstrate the proper methods for opening a trailer door
 - a. Preporation of scene
 - i. Set up a paremiter
 - ii. Establish animal area and human safety areas
 - b. Preporation or opening the door
 - i. Measure the door swing
 - ii. Measure the ramp drop area
 - c. Methods for opening a door
 - i. Single web with a pole
 - ii. Double webbing
 - iii. Clearing the butt chain/butt bar
 - iv. Retriving the lead line
- 9. Understand when removal of the animal is appropriate and not
 - a. Terminally injured animal
 - b. Medically impared animal
 - c. Damaged trailer
- 10. Demontrate the proper methods of applying a rescue strap without entering the trailer
 - a. Equipment placement
 - b. Proper pulling techniques

Discussion Questions

- 4. What is the accepted substitute equipment is available on a fire engine?
- 5. What are the additional uses of lunge whips?
- 6. When is "tethering" of the rescuer appropriate?

Activities

To be determined by the instructor.

Topic 16-3:- Vertical Lifting/Emergency Halter Operations

Terminal Learning Objective

At the end of this topic, a student given webbing, piece of 1 ½" single jacket wild land hose without couplings, J-hook, lunge whip, webbing, rope pieces, Connel flex guide, a full size

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manakin fiberglass horse and a full size horse manikin, students will, observing proper positioning and rescure safety apply rescue equipment

Enabling Learning Objectives

- 1. Understand the dynamics of applying equipment to a live animal
 - a. Large animals
 - b. Small animals
- 2. Understand proper positioning
- 3. Understand appropriate situations where different techniquics are used
- 4. Understand the best access points for equipment application
- 5. Understand and demonstrate the application of a verticle lifting tie
 - a. Application to a standing animal
 - b. Application to a recumbent animal
 - c. Attachment of the lifting point, wrap three pull two
- 6. Understand and demonstrate the application of an emergency haulter
 - a. Using a rope
 - b. Using 1" webbing
 - c. Application to a sranding animal
 - d. Application to a recumbent animal
- 7. Understand and demonstrate the application of a lead line
- 8. Understand and demonstrate proper assessment of the animals vitals
 - a. Taking a pulse
 - b. Observing respirations

Discussion Questions

- 1. What consideration need to be made when working close to an animal?
- 2. What optional equipment on a fire engine can be used?

Activities

To be determined by the instructor.

Topic 16-4:- Animal Packaging/Rope systems

Terminal Learning Objective

At the end of this topic, a student given a life size horse manikin, a complement of ropes and hardware, a rescue glide, slip sheets and cargo netting, understand the different methods of packaging a large animal on a rescue glide for different situations. The student will assemble a hauling and lowering system that incorporates the adaptations needed to accommodate a large animal.

Enabling Learning Objectives

- 1. Understand the use of webbing/cargo netting to package an animal
 - a. For quick removal
 - b. To accommondate animal injuries
 - c. For low level transport

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- d. For high angle transport
- 2. Understand the dynamics of a rope system that may be subjected to a sudden shock load.
- 3. Understand the use of tamdem prusiks.
- 4. Understand the need for "cut aways" in a system and where they need to be applied.
- 5. Understand proper use of the rescue glide and slip sheets.
- 6. Understand the need for a load transfer.

Discussion Questions

- 1. What consideration need to be made when packaging an animal?
- 2. What is the function of the cut away
- 3. Why are tandem prusiks preferred??

Activities

To be determined by the instructor.

Topic 16-5:- Animal handling (optional)

Terminal Learning Objective

At the end of this topic, a student given a live horse and dog, webbing, rope pieces, students will, observing proper positioning and rescure safety will catch a loose horse, apply an emergency halter and lead the horse to a safe place. Students will catch a dog, apply a improvised muzzle and leach, and lead the dog to a safe place.

Enabling Learning Objectives

- 1. Understand the dynamics of approaching a loose animal.
- 2. Understand the signs that the animal may pose a safety problem to the rescures.
- 3. Understand the dynamics of applying equipment to a live animal
 - a. Large animals
 - b. Small animals
- 4. Understand proper positioning
- 5. Understand appropriate situations where different techniquics are used
- 6. Understand the best access points for equipment application
- 7. Understand and demonstrate the application of
 - a. An emergency haulter
 - i. Using 1" webbing
 - b. An emergency muzzle
 - i. Using gause
- 8. Understand and demonstrate the application of a lead line/leash.

Discussion Questions

- 1. What consideration need to be made when working close to an animal?
- 2. What optional equipment on a fire engine can be used?

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Activities

To be determined by the instructor.

Unit 17: ATR – Basic Rescues

Topic 17-1:- Basic Rescues, Forward drag

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes a full size animal manikin; students will perform a scene assessment, establish command, select appropriate strapping and extrication application and resolve the rescue in 10 minutes time.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Extrication equipment application
 - b. Haul
 - c. Parameter
 - d. Containment
 - e. Safety
- 5. Teams will determine needed equipment and most appropriate application
- 6. Students will establish a perimeter
- 7. Students will safely apply the extrication equipment
- 8. Students will extricate the animal
- 9. Students will discuss Hand Off

Discussion Questions

- 1. What are the accepted methods of equipment application?
- 2. What alternate methods could be used?

Activities

1. Preform a rescue using a forward drag.

Topic 17-2:- Basic Rescues, Rear drag

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes a full size animal manikin; students will perform a scene assessment, establish command, select appropriate strapping and extrication application and resolve the rescue in 10 minutes time.

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Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Extrication equipment application
 - b. Haul
 - c. Parameter
 - d. Containment
 - e. Safety
- 5. Teams will determine needed equipment and most appropriate application
- 6. Students will establish a perimeter
- 7. Students will safely apply the extrication equipment
- 8. Students will extricate the animal
- 9. Students will discuss Hand Off

Discussion Questions

- 1. What are the accepted methods of equipment application?
- 2. What alternate methods could be used?

Activities

1. Preform a rescue using a rear drag.

Topic 17-3:- Basic Rescues, Animal Roll

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes a full size animal manikin; students will perform a scene assessment, establish command, select appropriate strapping and extrication application and resolve the rescue in 10 minutes time.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Extrication equipment application
 - b. Haul
 - c. Parameter
 - d. Containment
 - e. Safety
- 5. Teams will determine needed equipment and most appropriate application
- 6. Students will establish a perimeter
- 7. Students will safely apply the extrication equipment

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- 8. Students will extricate the animal
- 9. Students will discuss Hand Off

Discussion Questions

- 1. What are the accepted methods of equipment application?
- 2. What alternate methods could be used?

Activities

1. Preform a rescue using an animal roll over.

Topic 17-4:- Basic Rescues, Side Drag

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes a full size animal manikin; students will perform a scene assessment, establish command, select appropriate strapping and extrication application and resolve the rescue in 10 minutes time.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Extrication equipment application
 - b. Haul
 - c. Parameter
 - d. Containment
 - e. Safety
- 5. Teams will determine needed equipment and most appropriate application
- 6. Students will establish a perimeter
- 7. Students will safely apply the extrication equipment
- 8. Students will extricate the animal
- 9. Students will discuss Hand Off

Discussion Questions

- 1. What are the accepted methods of equipment application?
- 2. What alternate methods could be used?

Activities

1. Preform a rescue using a side drag.

Unit 18: ATR – Scenario Training

Topic 18-1:- Rolled Trailer Accident

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Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, Conell Flex Guide, ropes, a full size manikin, and a rolled over horse trailer containing at least one life sized horse manikin, students will preform a scene assessment, discuss horse trailer construction, establish a command structure, secure the scene, apply rescue equipment and extricate the manikin from the trailer.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Extracation equipment application
 - b. Haul
 - c. Paremeter
 - d. Stablization/Door opening
 - e. Continament
 - f. Safety
- 5. Teams will determine needed equipment
- 6. Students will establish a parimeter
- 7. Students will safely apply the extracation equipment
- 8. Students will safely open the trailer door
- 9. Students will extricate the animal
- 10. Students will discuss the proper Hand Off

Discussion Questions

- 1. What are the accepted methods of equipment application?
- 2. What is the trailer construction?
- 3. How can that construction type be used to assist in operations?

Activities

1. Students will remove an animal from a rolled horse trailer.

Topic 18-2:- Animal Over the Side/Long Haul with DECON

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, J-hook, lunge whip, Connel flex guideand rope and rope systems, and a full size manakin, students will preform a scene assessment, establish a command, order resources and equipment, apply equipment, establish a hauling system and preform an animal rescue.

Enabling Learning Objectives

- 1. Understand the dynamics of over the side rescues
- 2. Understand the dynamics of equipment application

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- 3. Understand proper positioning and safe access to the animal
- 4. Students will conduct a scene safety analysis
- 5. Establish an incident command
- 6. Determine appropriate resources needed
- 7. Determine the needed teams
 - g. Equipment application
 - h. Haul team
 - i. Personnel access team if needed
 - i. Animal Handler
 - k. Containment
 - I. Safety
- 11. Teams will determine needed equipment
- 12. Students will apply rescue equipment
- 13. Students will move the animal to a safe location
- 14. Establish DECON station
- 15. Students will discuss Hand-off

Discussion Questions

- 1. What additional precautions are needed in an over the side situation?
- 2. Does position of the animal affect the rescue efforts?

Activities

1. Students woo preform a long haul of a animal from an over the side situation and discuss post rescue decon.

Topic 18-3:- Trapped Animal/Rapid Extrication of Human with Vertical Lift

Terminal Learning Objective

At the end of this topic, a student given webbing, rescue strap, J-hook, lunge whip, Connel flex guideand rope and rope systems, and a full size manakin, students will remove the animal froms an entrapment, move it to a lifting location, apply lifting equipment and lift the animal.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Rapid extrication team
 - b. Haul
 - c. Paremeter
 - d. Stablization/Door opening
 - e. Continament
 - f. Safety

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- 5. Teams will determine needed equipment
- 6. Students will establish a parimeter
- 7. Students will safely apply the extrication equipment
- 8. Students will extricate the animal
- 9. Students will move the animal to a lifting location
- 10. Students will apply lifting equipment
- 11. Students will lift the animal
- 12. Hand Off

Discussion Questions

- 1. What is the accepted substitute equipment is available on a fire engine?
- 2. What are the additional concerns when lifting an animal?

Activities

1. Students will remove a trapped human using rapid extricationmethods, remove the animal and preform a vertical lift.

Topic 18-4:- Rolling a Trailer

Terminal Learning Objective

At the end of this topic, a student given webbing, ropes and arolled over horse trailer, students will preform a scene assessment, discuss horse trailer construction, establish a command structure, secure the scene, apply equipment and roll the trailer back to it's wheels.

Enabling Learning Objectives

- 1. Students will conduct a scene safety analysis
- 2. Establish an incident command
- 3. Determine appropriate resources needed
- 4. Determine the needed teams
 - a. Haul
 - b. Stablization/equipment application
 - c. Safety
- 5. Teams will determine needed equipment
- 6. Students will establish a parimeter
- 7. Students will safely apply the equipment
- 8. Students will safely roll the trailer back to it's wheels

Discussion Questions

- 1. What are the needs for the "moving" anchors at the trailer hitch?
- 2. What trailer construction issues will affect the rolling of the trailer?
- 3. What animal conditions allow rolling of the trailer?
- 4. Why do we need to control both the lowering and hauling sides at the same time?

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Activities

1.Students will roll a trailer back onto it's wheels.

Time Table

Segment	Lecture Time	Activity/Skill s Time	Total Unit Time
Unit 1: Introduction			
Topic 1-1: Orientation and Administration			
Lecture	15 minutes		
Activity 1-1: Determined by instructor		0	
Topic 1-2: Animal Technical Rescue			
Certification Process			
Lecture	15 minutes		
Activity 1-2: Determined by instructor		0	
Unit 1 Totals	30 minutes	0	30 minutes
Unit 2: Introduction and History			
Topic 2-1: Introduction and History			
Lecture	15 minutes		
Activity2-1: Determined by instructor		0	
Unit 2 Totals	15 minutes	0	15 minutes
Unit 3: Animal Anatomy / Physiology			
Topic 3-1: Animal Anatomy / Physiology			
Lecture	45 minutes		
Activity 3-1: Determined by instructor		0	
Unit 3 Totals	45 minutes	0	45 minutes
Unit 4: Safety and Approach			
Topic 4-1: Safety and Approach			
Lecture	15 minutes		
Activity 4-1: Determined by instructor		0	
Unit 4 Totals	15 minutes	0	15 minutes
Unit 5:Patient Management			
Topic 5-1: Patient Management			
Lecture	10 minutes		
Activity 5-1: Determined by instructor		0	
Unit 5 Totals	15 minutes	0	15 minutes
Unit 6: Animal First Aid			
Topic 6-1: Animal First Aid			
Lecture	15 minutes		

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Segment	Lecture Time	Activity/Skill s Time	Total Unit Time
Activity 6-1: Determined by instructor	Time	0	Time
Unit 6 Totals	15 minutes	0	15 minutes
Unit 7: Scene Management			25 1111114465
Topic 7-1: Scene Management			
Lecture	15 minutes		
Activity 7-1: Determined by instructor		0	
Topic 7-2: Rescue Concepts			
Lecture	30 minutes		
Activity 7-2: Determined by instructor		0	
Unit 7 Totals	45 minutes	0	45 minutes
Topic 7-3: Scene Management Exercise			
Lecture	0		
Activity 7-3: Table top exercise		1 hour	
(Optional)Topic 7-3 Totals	0	1 hour	1 hour
Unit 8: Physics			
Topic 8-1 Physics			
Lecture	15 minutes		
Activity 8-1: Determined by instructor		0	
Unit 8 Totals	15	0	15
	minutes		minutes
Unit 9 Raising and Lowering			
Topic 9-1: Raising and Lowering	45		
Lecture	45 minutes	0	
Activity 9-1: Determined by instructor Unit 9 Totals	45	0	45
Offit 9 lotals	minutes	U	minutes
Unit 10: Vertical Lifting / Helicopter	illillutes		illillutes
Topic 10-1: Vertical Lifting			
Lecture	15 minutes		
Activity 10-1: Determined by instructor		0	
Topic 10-2: Helicopter			
Lecture	15 minutes		
Activity 10-2: Determined by instructor		0	
Unit 10 Totals	30	0	30
5 25 10(0)3	minutes		minutes
Unit 11: Water, Mud and Ice Operations			
Topic 11-1: Water, Mud and Ice Operations			
Lecture	30 minutes		
Activity 11-1: Determined by instructor		0	

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Segment	Lecture Time	Activity/Skill s Time	Total Unit Time
Unit 11 Totals	30	0	30
	minutes		minutes
Unit 12: Animal Decontamination			
Topic 12-1 Animal Decontamination			
Lecture	15 minutes		
Activity 12-1: Determined by instructor		0	
Unit 12 Totals	15	0	15
	minutes		minutes
Unit 13: Small Animals			
Topic 13-1: Small Animals			
Lecture	15 minutes	_	
Activity 13-1: Determined by instructor		0	4 =
Unit 13 Totals	15 minutes	0	15 minutes
Unit 14: Animal Euthanasia	minutes		minutes
Topic 14-1: Animal Euthanasia			
Lecture	15 minutes		
Activity 14-1: Determined by instructor	13 minutes	0	
Unit 14 Totals	15	0	15
Offit 14 lotals	minutes	U	minutes
Unit 15: Recovery	minutes		illillates
Topic 15-1: Recovery			
Lecture	15 minutes		
Activity 15-1: Determined by instructor		0	
Unit 15 Totals	15	0	15
3 25 1313.15	minutes	·	minutes
Unit 16: Basic Skills			
Topic 16-1: Basic Animal Manipulation			
Lecture	0		
Activity 16-1: Determined by instructor	Ü	1 hour	
Topic 16-2: Basic Trailer Operations		21.001	
Lecture	0		
Activity 16-2: Determined by instructor	J	1 hour	
Topic 16-3: Verticle Lifting/Emergency Haulter		TITOUT	
Lecture	0		
Activity 16-3: Determined by instructor	U	1 hour	
Topic 16-4: Animal Packaging/Rope Systems		Tiloui	
Lecture	0		
	U	1 hour	
Activity 16-4: Determined by instructor		1 hour	

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Segment	Lecture Time	Activity/Skill s Time	Total Unit Time
Topic 16-5: Animal Handling (Optional)			
Lecture	0		
Activity 16-5: Determined by instructor		1 hour	
Unit 16 Totals	0	4 hours (5 hours)	4 hours (5 hours)
Unit 17: Basic Rescues			
Topic 17-1: Rescue with Forward drag			
Lecture	0		
Activity		15 minutes	
Topic 17-2: Rescue with Rear drag			
Lecture	0		
Activity		15 minutes	
Topic 17-3: Rescue with Rollover			
Lecture	0		
Activity		15 minutes	
Topic 17-4: Rescue with Side drag			
Lecture	0		
Activity		15 minutes	
Unit 17 Totals	0	1 hour	1 hour
Unit 18: Senario Training.			
Topic 18-1: Rolled Trailer Accident			
Lecture			
Activity	0	1 hour	
Topic 18-2: Animal Over the Side			
Lecture	0		
Activity		1 hour	
Topic 18-3: Trapped Animal/Human with Verticle Lift			
Lecture	0		
Activity		1 hour	
Topic 18-4: Rolling a Trailer			
Lecture	0		
Activity 18-4: Rolling a Trailer		1 hour	
Unit 18 Totals	0	4.0 hours	4.0 hours
Lecture, Activity, and Unit Totals:	0		16 hours

Course Totals

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Total Lecture Time (LT)	6.0 hours
Total Activity Time (AT)	1.0 hours
Total Skill Time (ST)	9.0 hours
Total Testing Time (TT)	0.0 hour
Total Course Time	16.0 hours

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